

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

Figure 1A

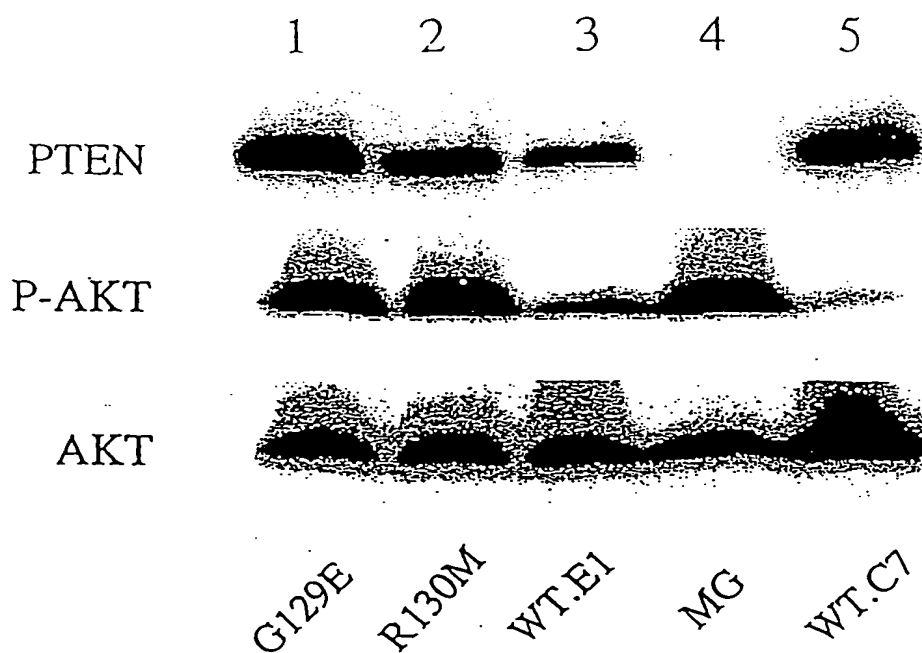


Figure 1B

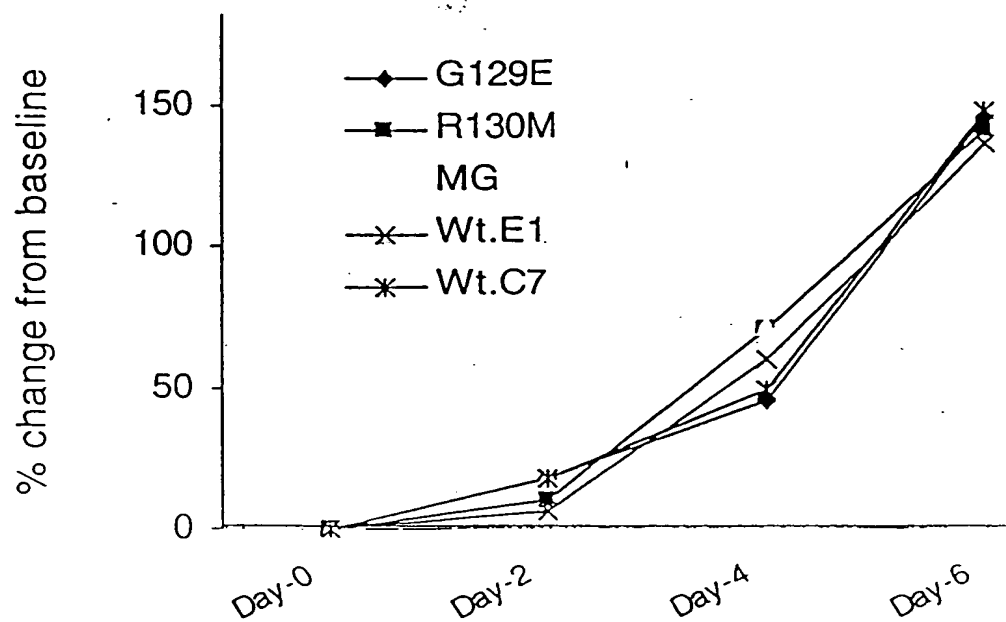


Figure 3A

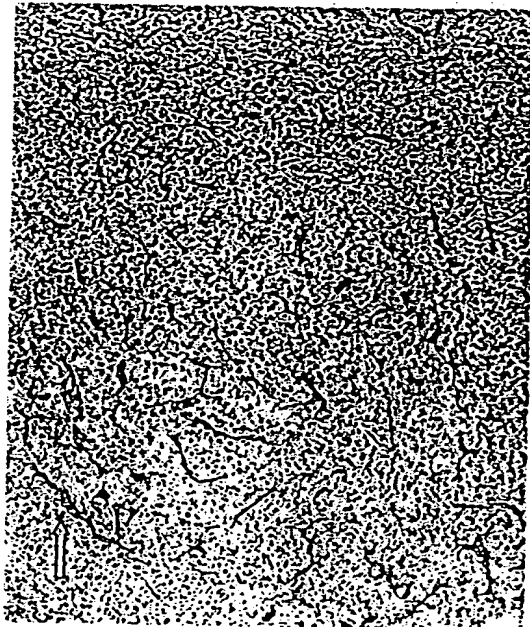


Figure 3B

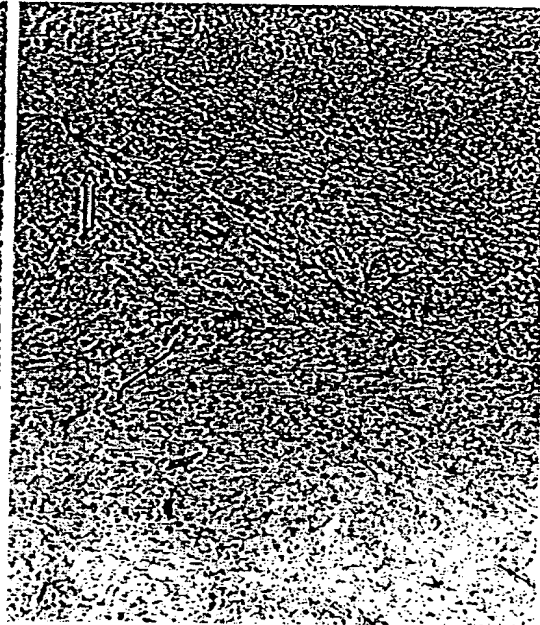


Figure 3C

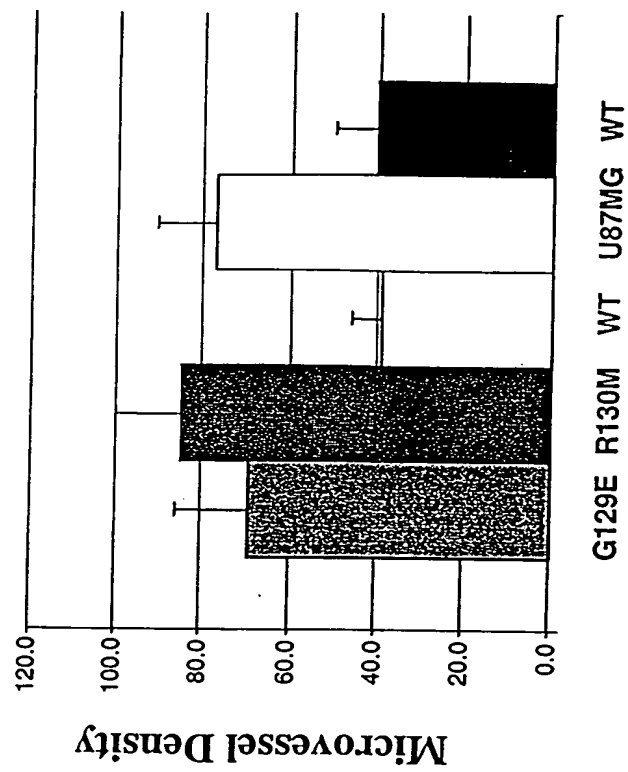


Figure 2A

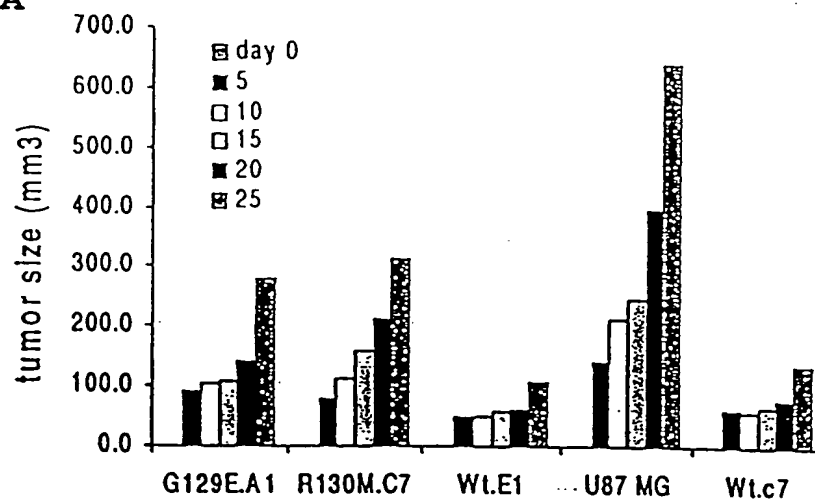


Figure 2B

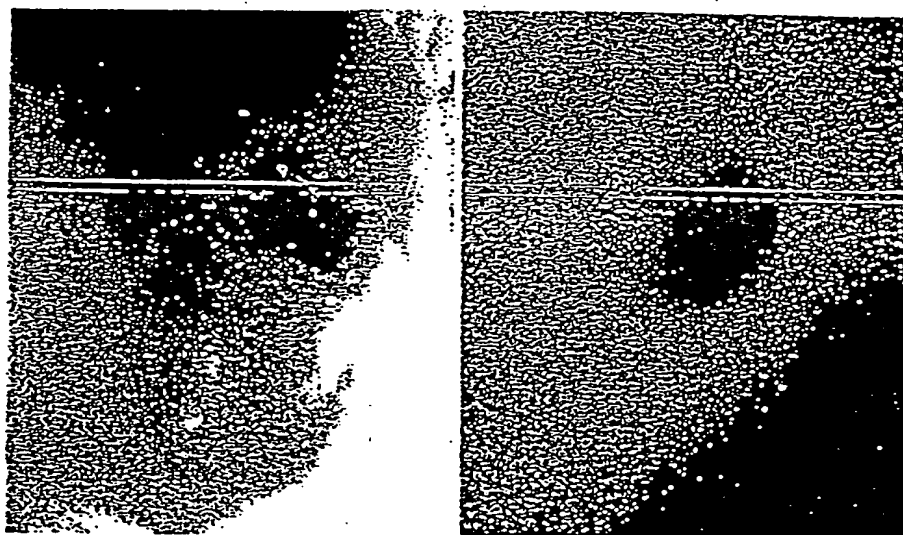


Figure 2C

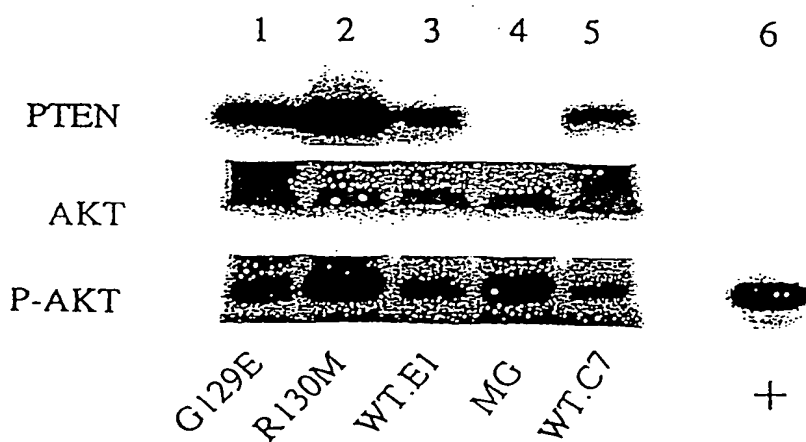


Figure 3D

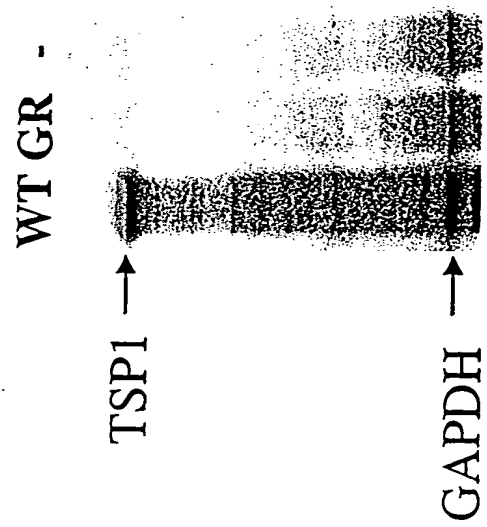
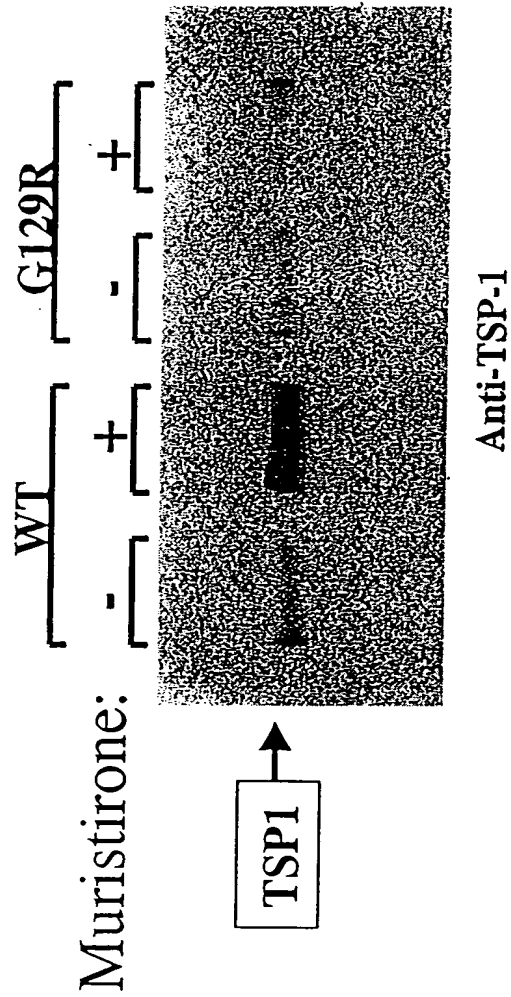


Figure 3E



**Figure 4**

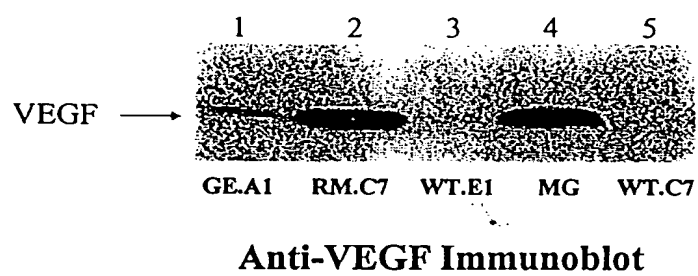


Figure 5A



Figure 5B



Figure 5C



Figure 5D

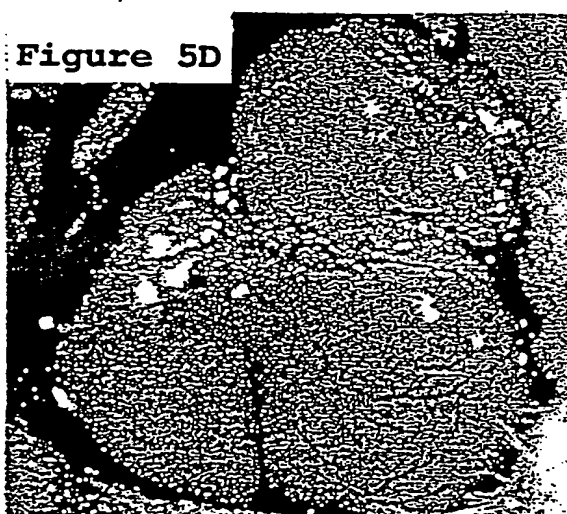


Figure 5E

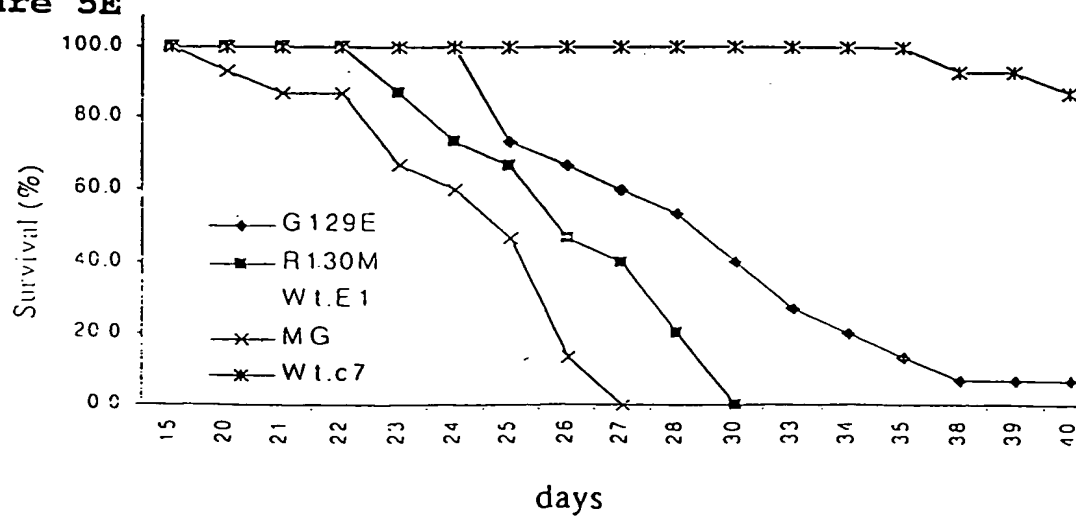


Figure 6

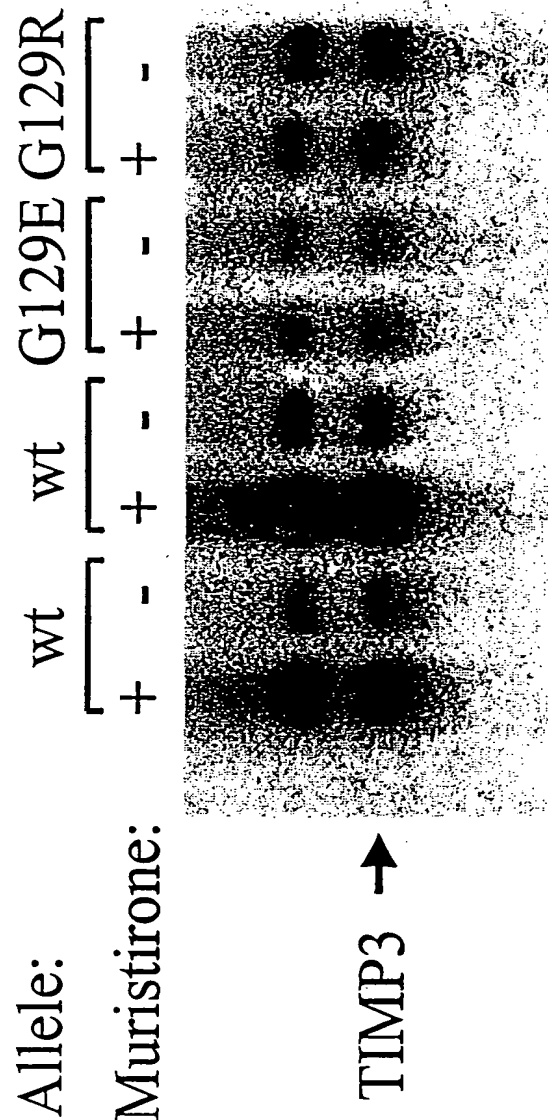




Figure 7

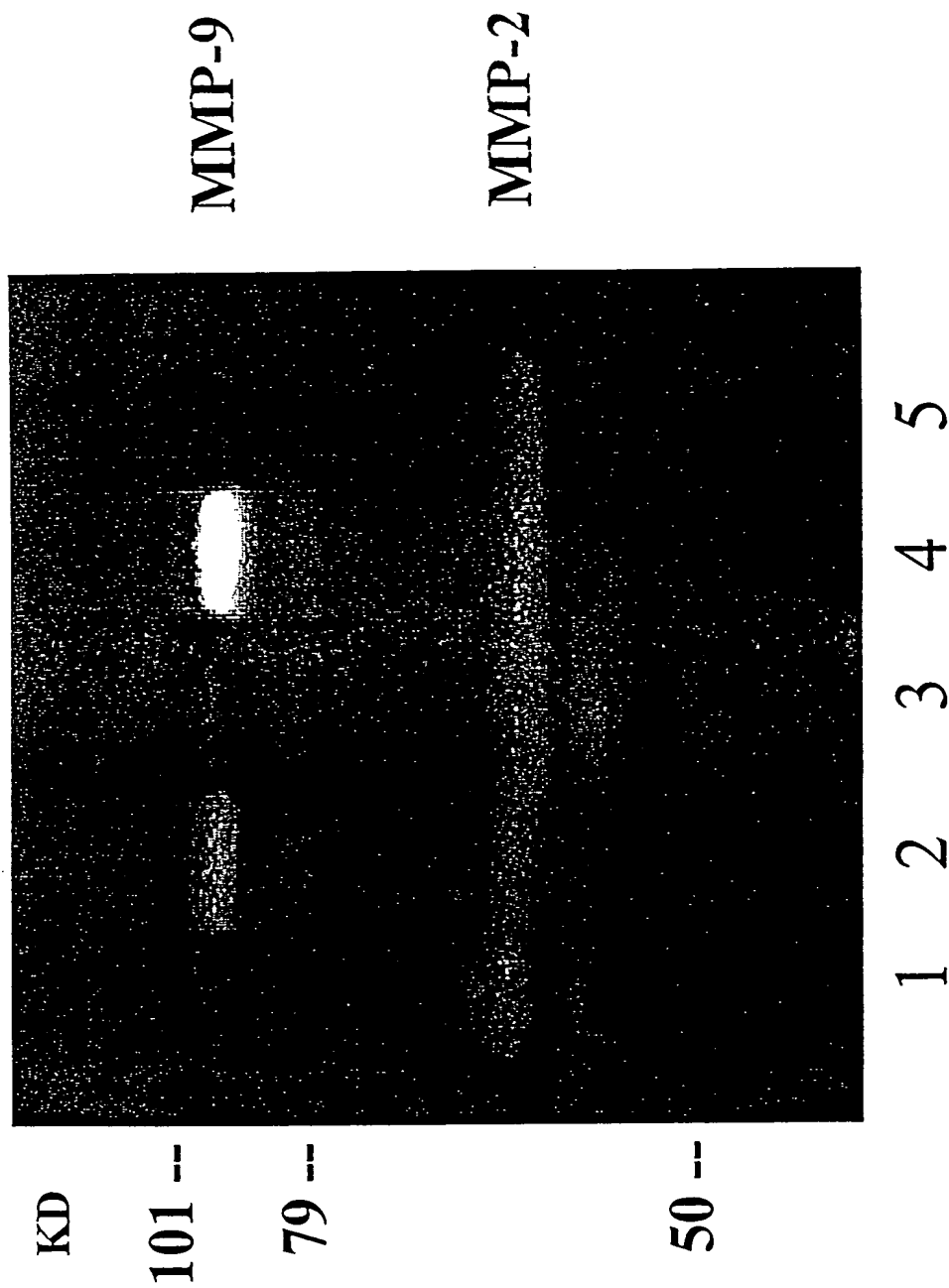
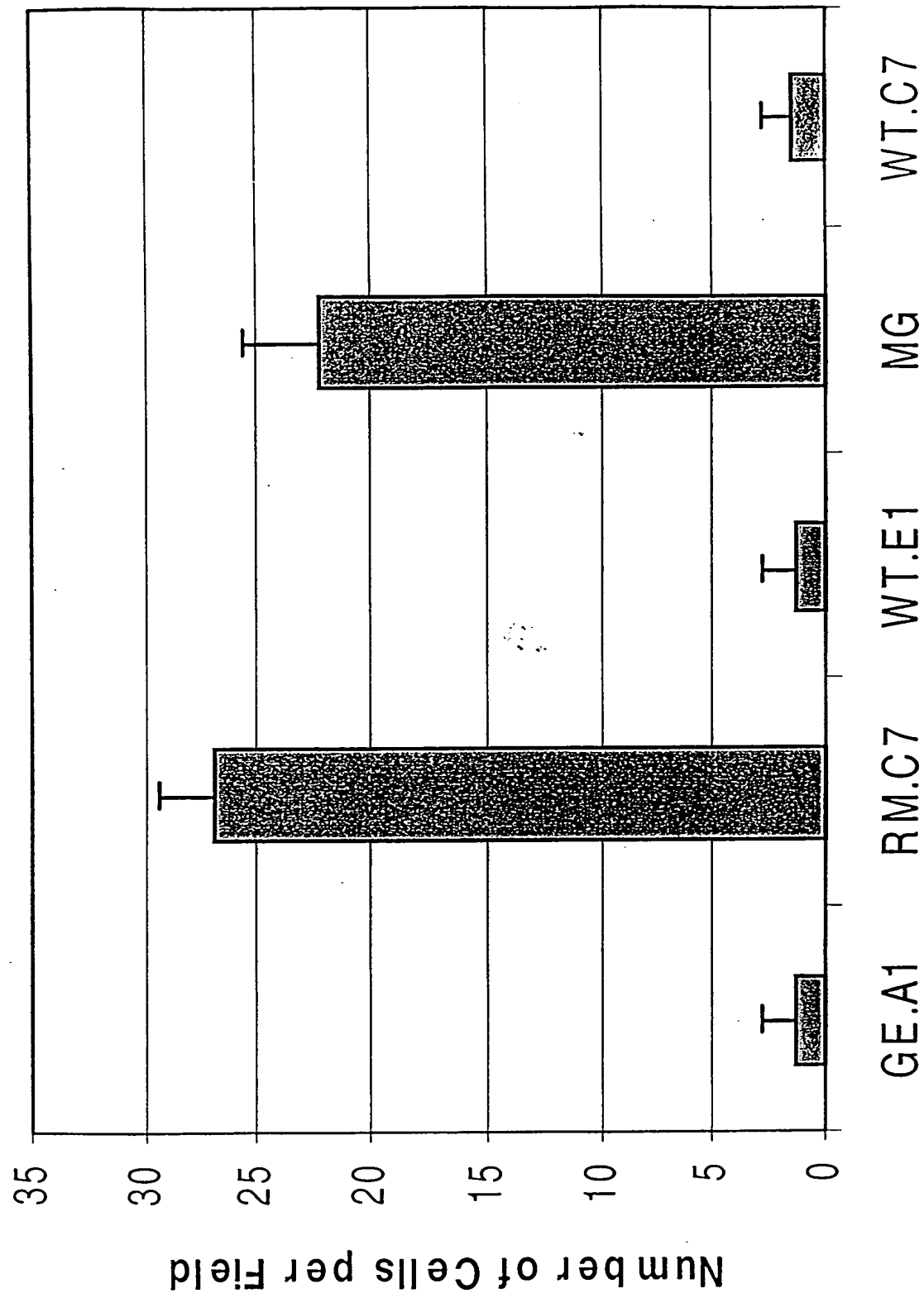
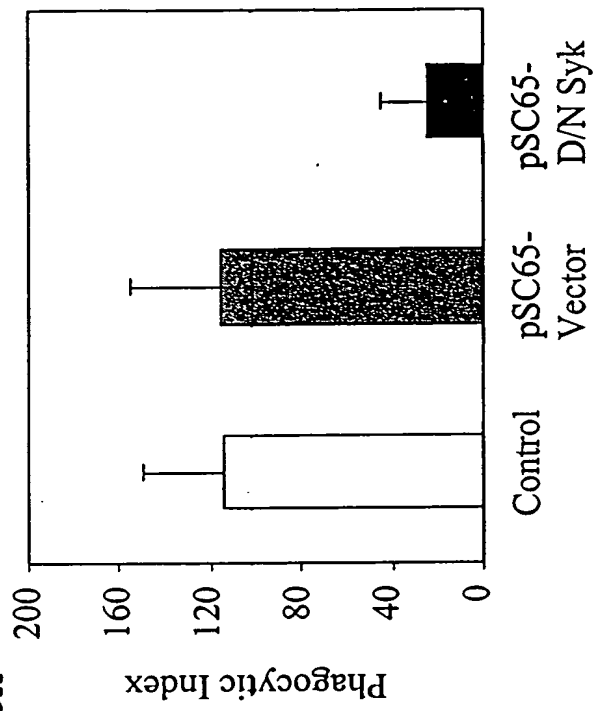


Figure 8



**Figure 9A**



**Figure 9B**

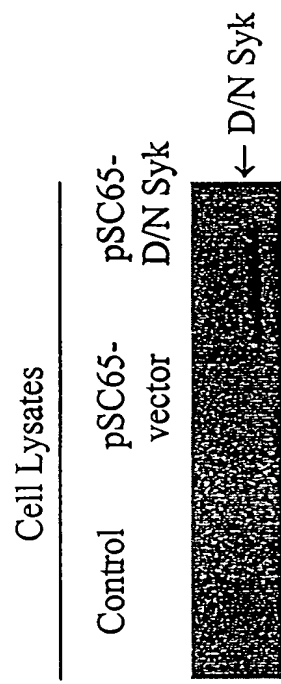


Figure 10A

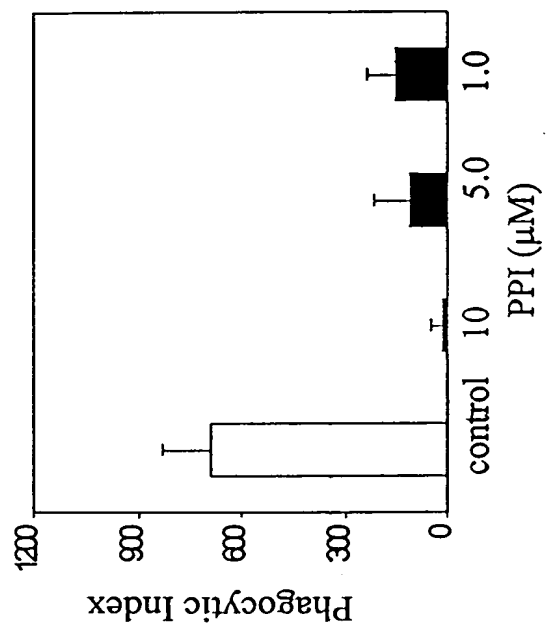
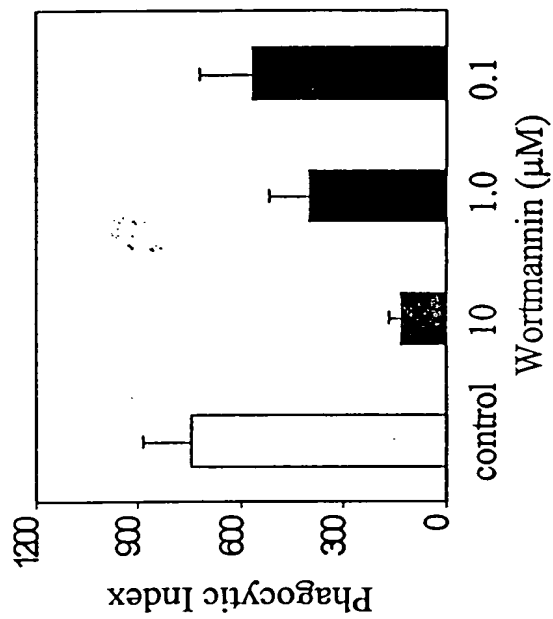
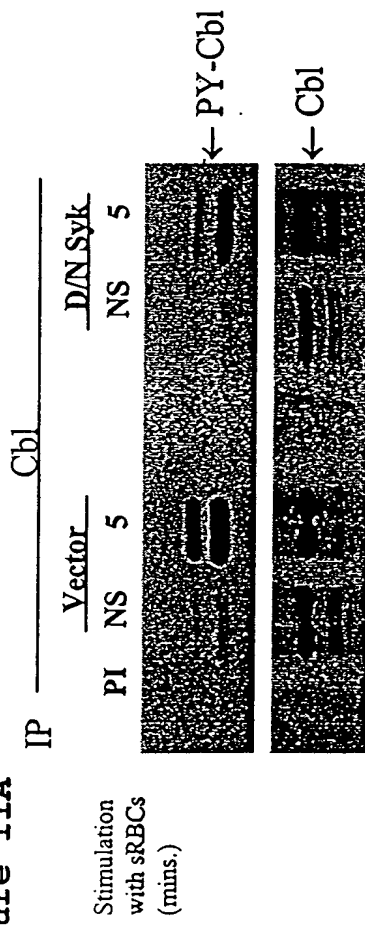


Figure 10B



**Figure 11A**



**Figure 11B**

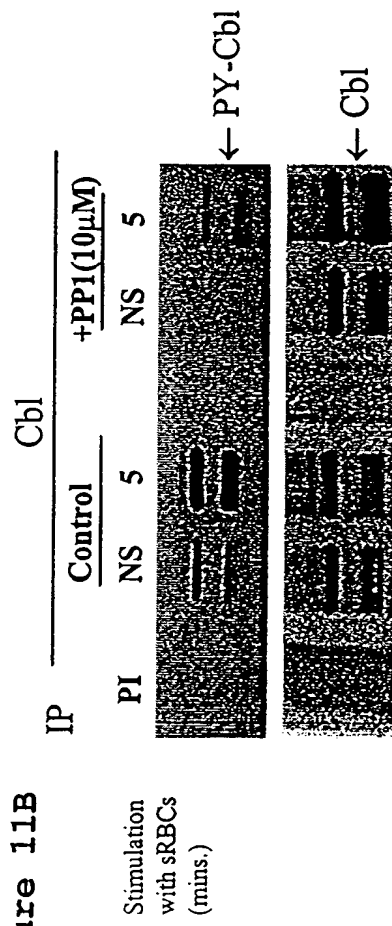
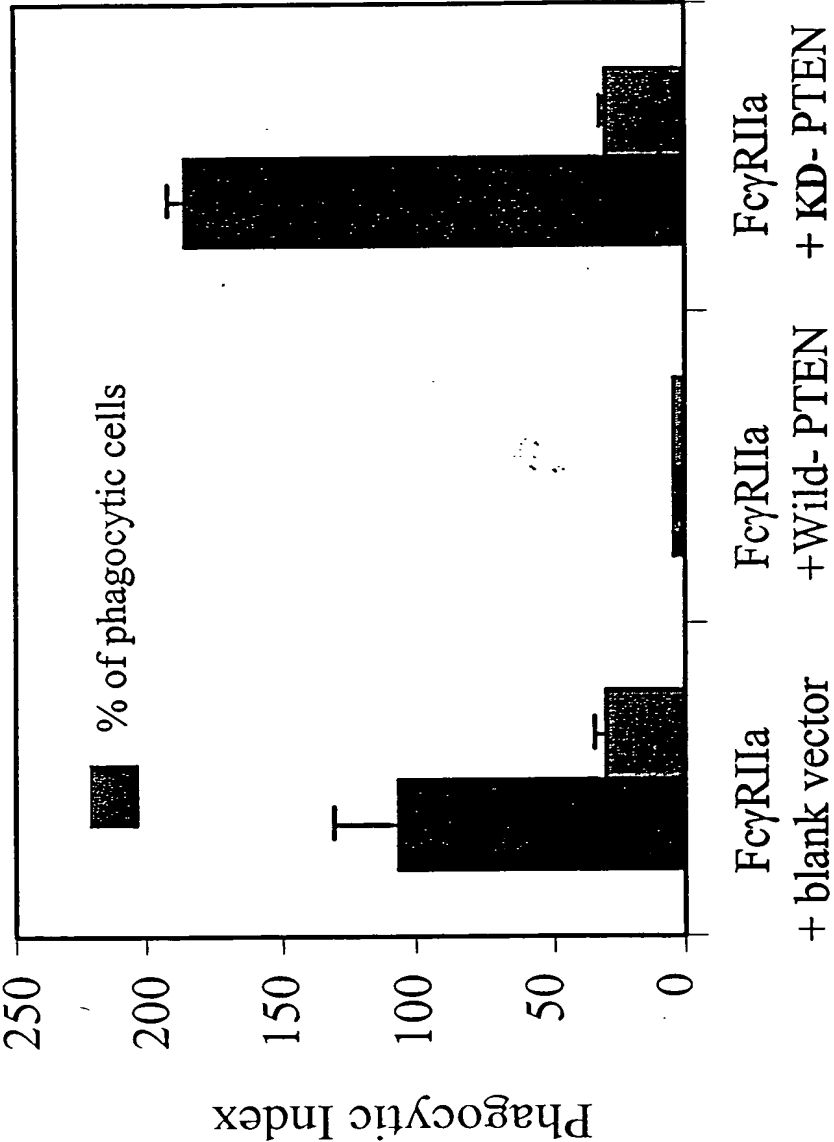


Figure 12



**Figure 13**

Allele:

Muristirona:

	wt	HA-wt	GR	wt	HA-wt	GR
	[ + ]	[ + ]	[ + ]	[ + ]	[ + ]	[ + ]

Blot:

phospho S473 Akt Akt

Figure 14

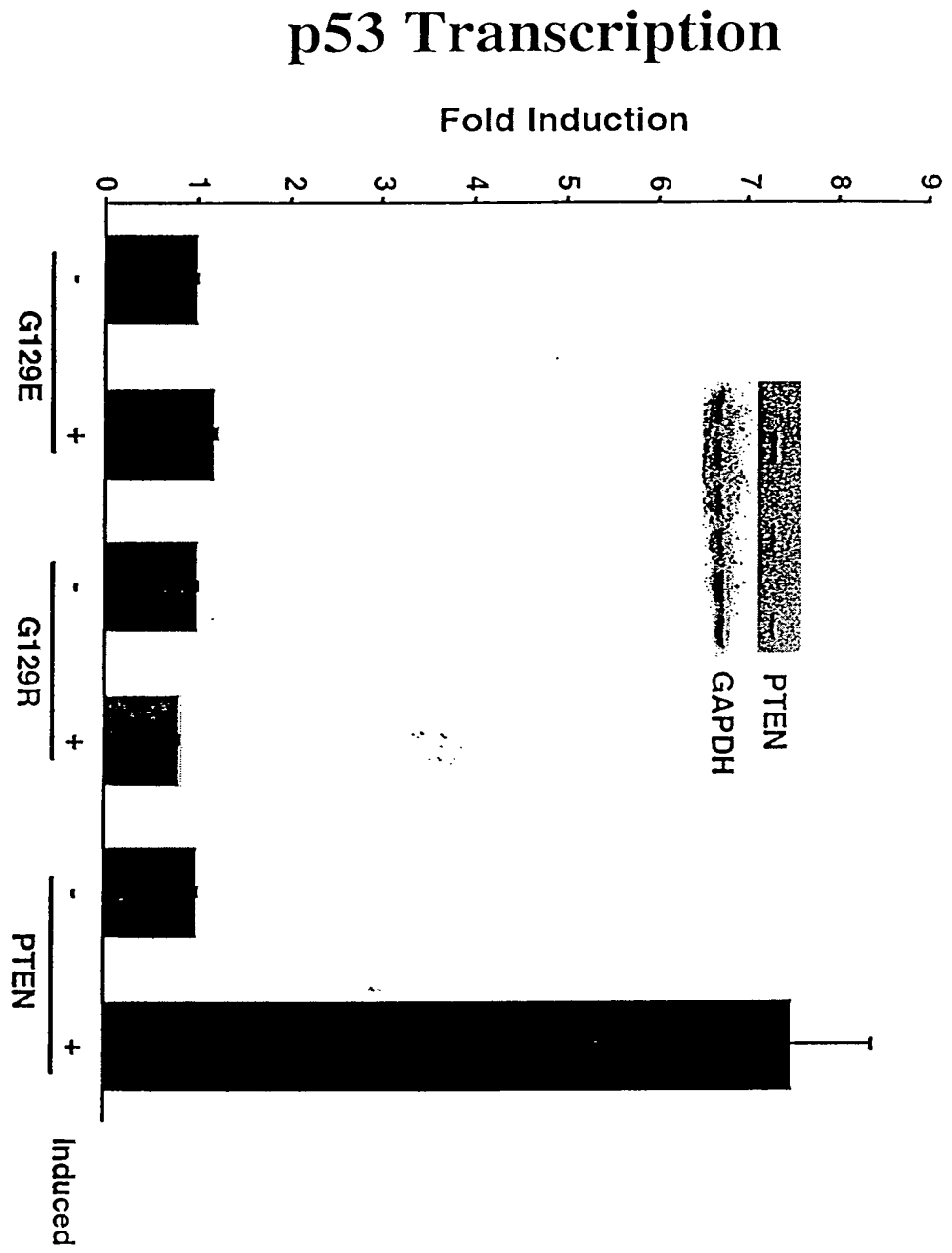




Figure 15

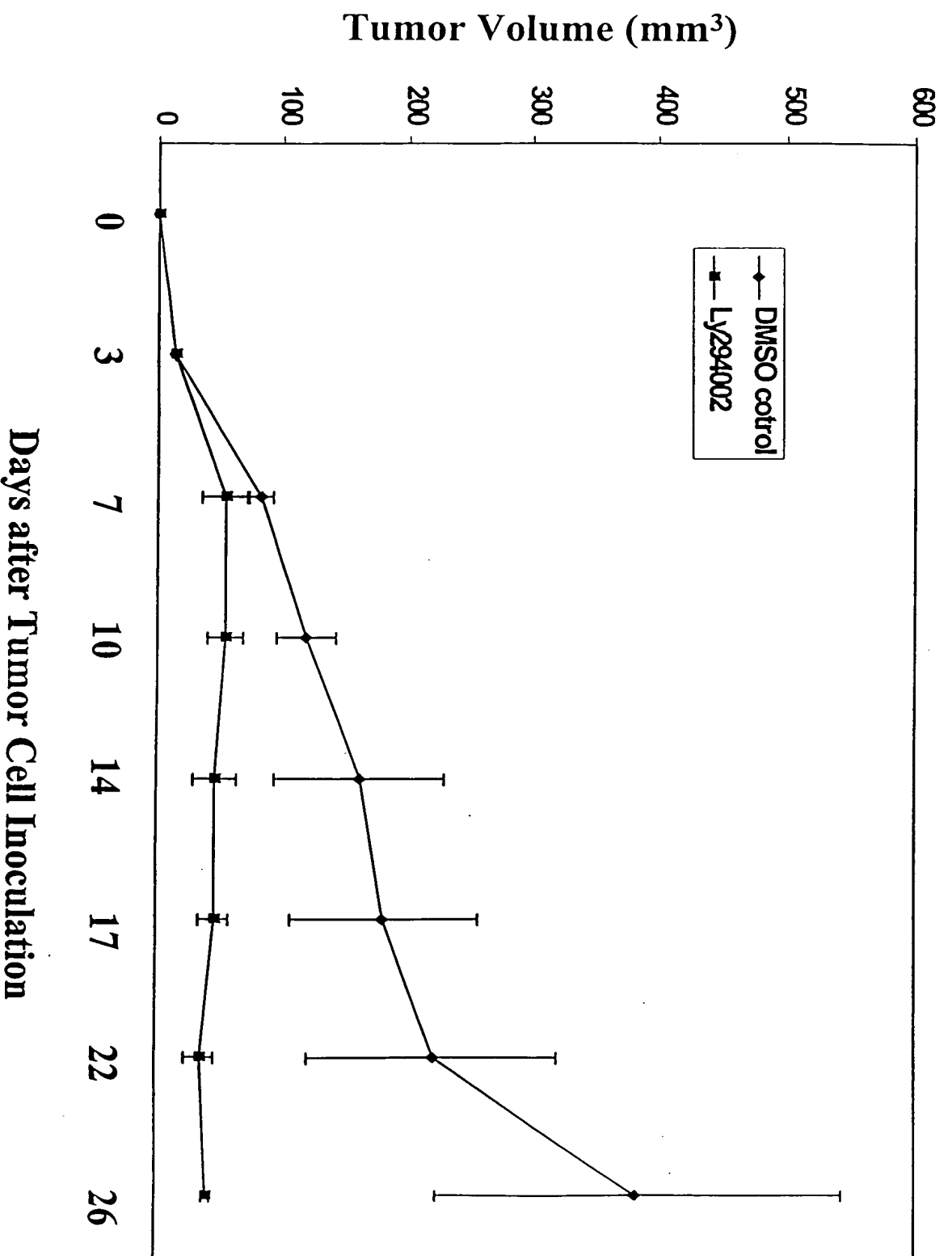


Figure 16

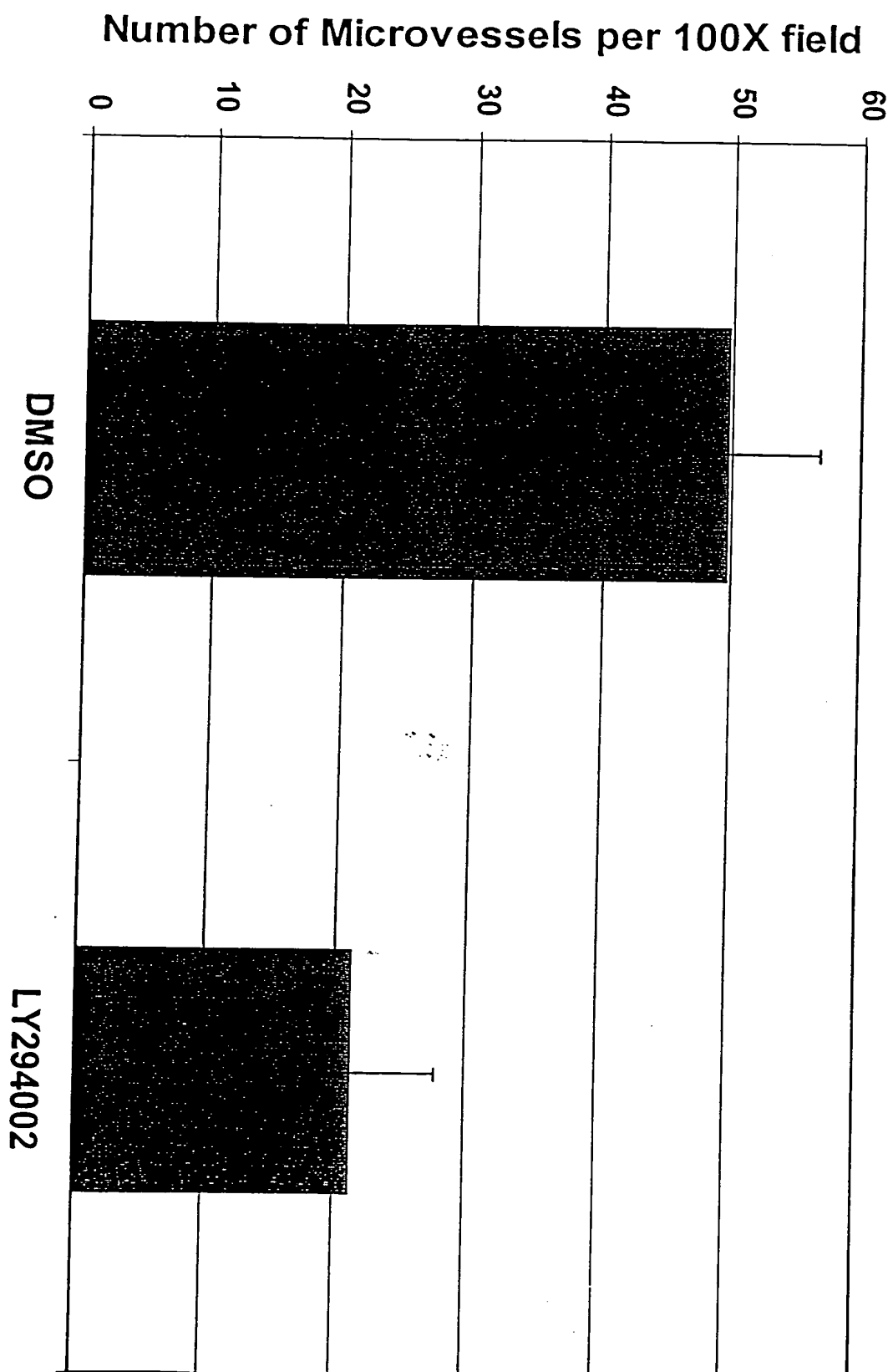


Figure 17

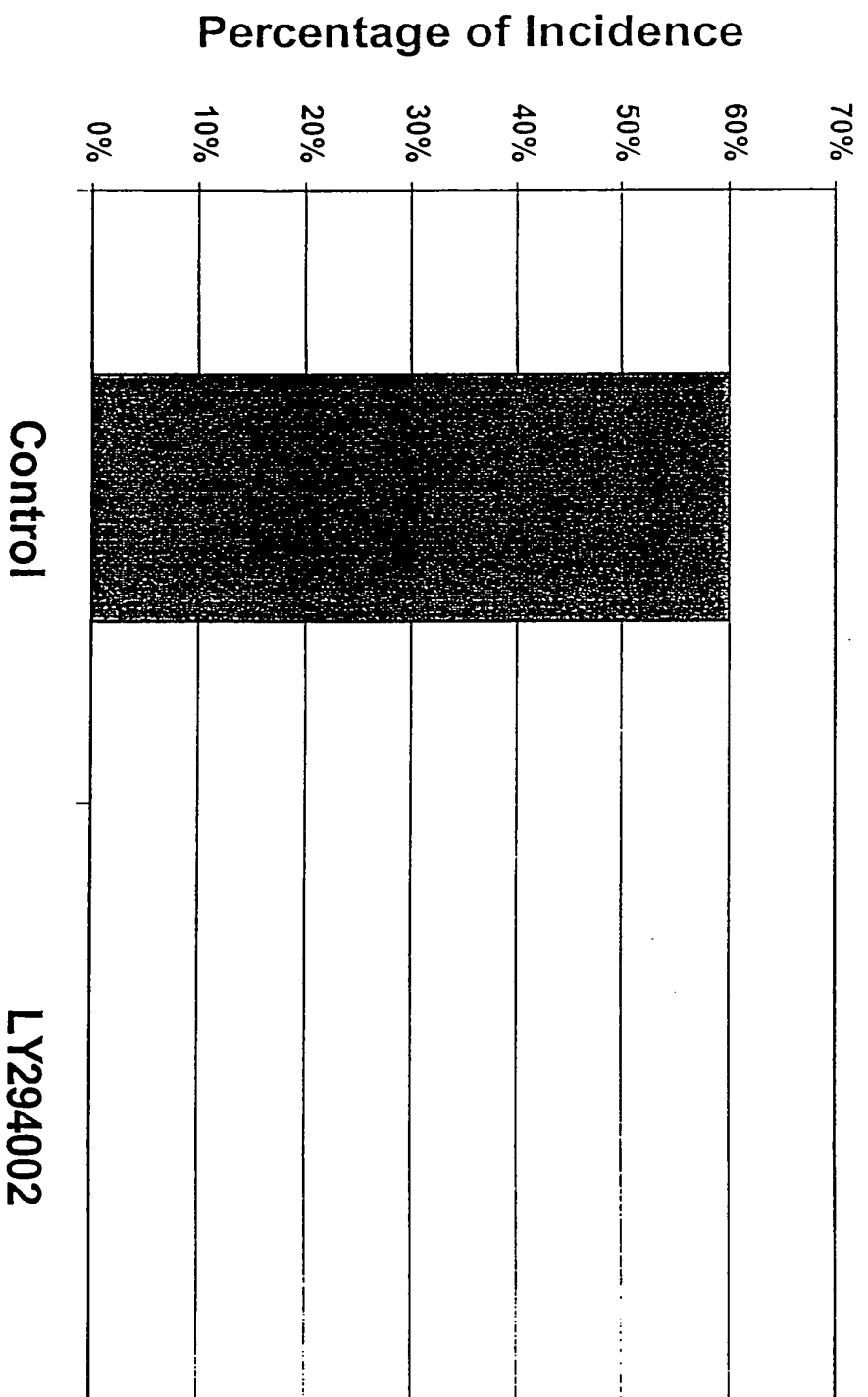


Figure 18

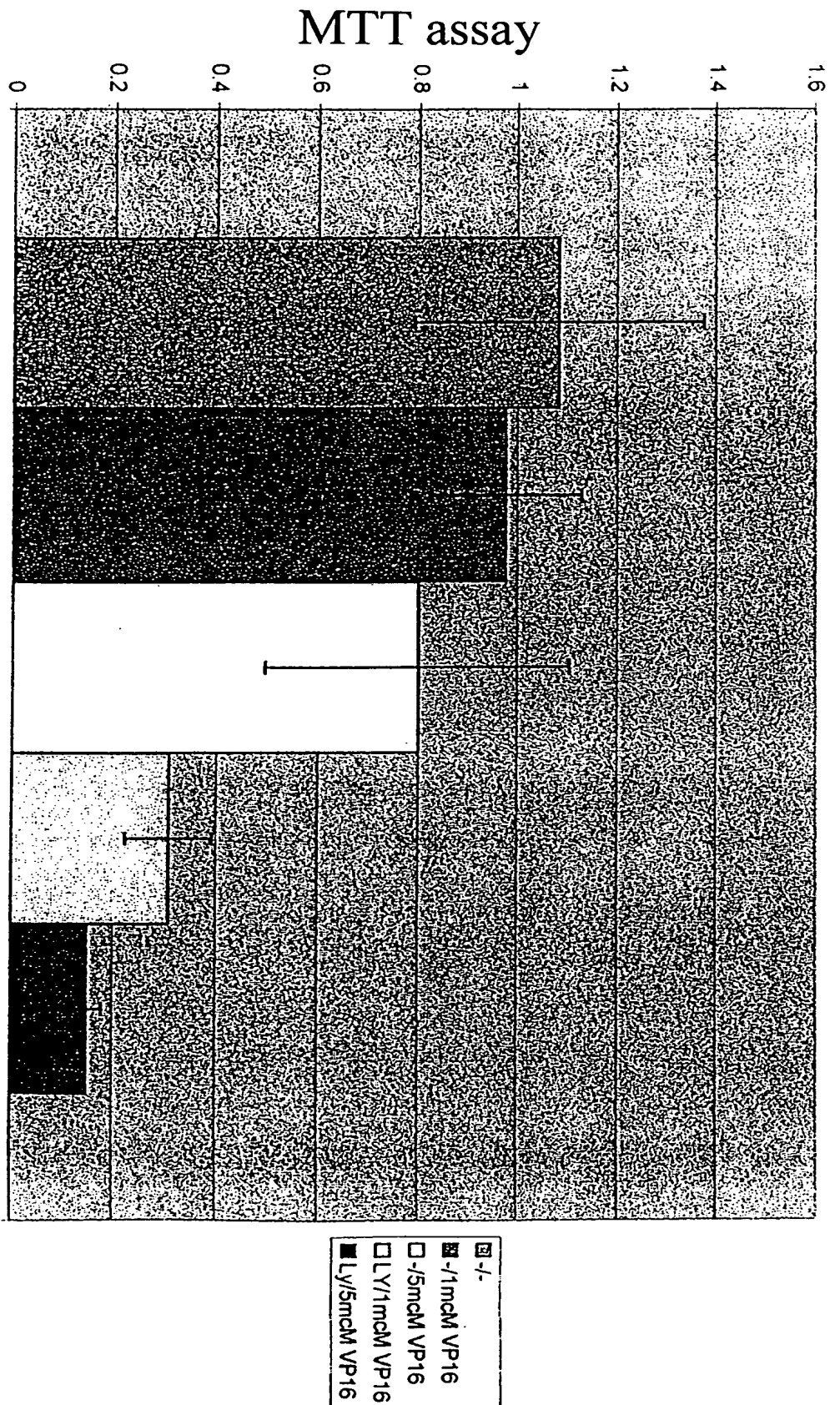


Figure 19

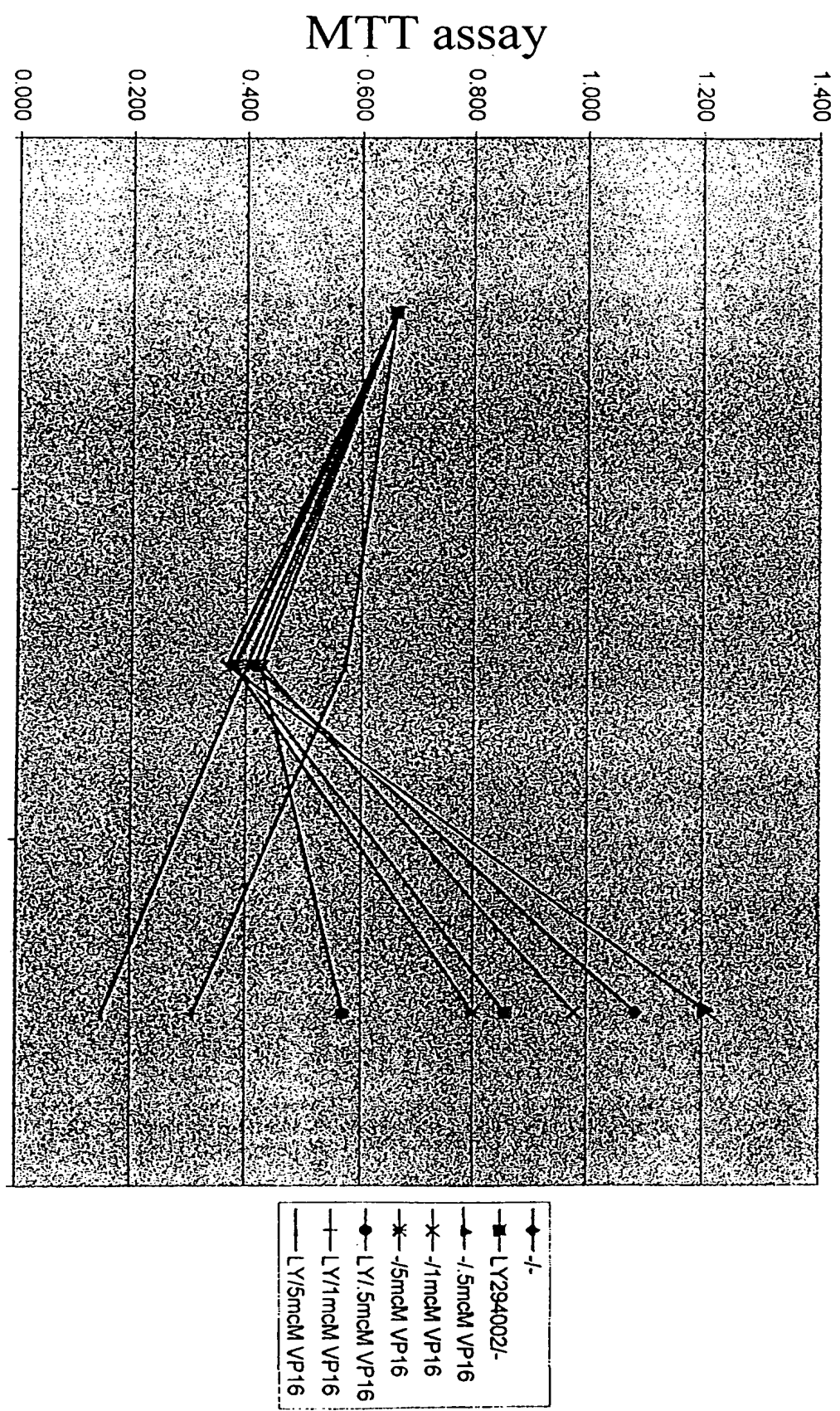
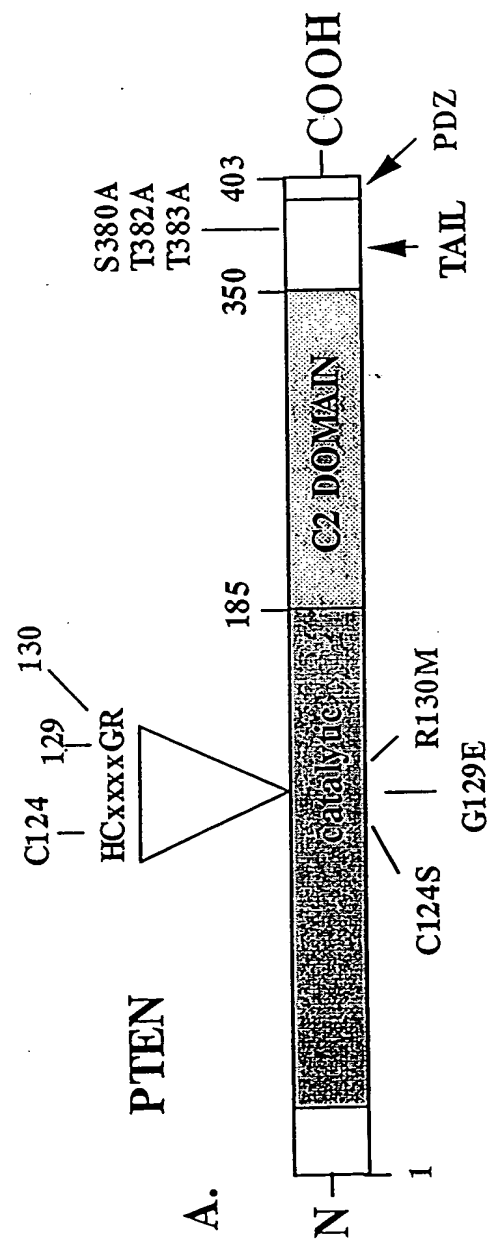


Fig. 20A



```

      1760      1770      1780      1790      1800
ACAAAAATGTTTCACCTTTTGGGTAAATACGTTCTTCATACCAGGACCAGAG
TGTTTTTACAAAGTGAAAACCCATTTATGCAAGAAGTATGGTCCTGGTCTC
D K M F H F W V N T F F I P G P E>
__HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC__>

                                     >ClaI
                                     |
                                     >BsiXI
                                     |
                                     >BsiQI      >TaqI
                                     |      |
      1810      1820      1830      1840      1850
GAAACCTCAGAAAAAGTGGAAATGGAAGTCTTTGTGATCAGGAAATCGA
CTTTGGAGTCTTTTTCACCTTTTACCTTCAGAAACACTAGTCCTTTAGCT
E T S E K V E N G S L C D Q E I D>
__HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC__>

                                     >RsaI
                                     |
      1860      1870      1880      1890      1900
TAGCATTTCAGTATAGAGCGTGCAGATAATGACAAGGAGTATCTTGTAC
ATCGTAAACGTCATATCTCGCACGTCTATTACTGTTCTCATAGAACATG
S I C S I E R A D N D K E Y L V>
__HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC__>

      1910      1920      1930      1940      1950
TCACCCTAACAAAAACGATCTTGACAAAGCAAACAAAGACAAGGCCAAC
AGTGGGATTGTTTTTTGCTAGAACTGTTTCGTTTGTTCGTCCGGTTG
L T L T K N D L D K A N K D K A N>
__HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC__>

      1960      1970      1980      1990      2000
CGATACTTCTCTCCAAATTTTAAGGTGAACTATACTTTACAAAAACAGT
GCTATGAAGAGAGGTTTAAATTCCTTTGATATGAAATGTTTTTGTCA
R Y F S P N F K V K L Y F T K T V>
__HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC__>

      2010      2020      2030      2040      2050
AGAGGAGCCATCAAATCCAGAGGCTAGCAGTTCAACTTCTGTGACTCCAG
TCTCCTCGGTAGTTTAGGTCTCCGATCGTCAAGTTGAAGACACTGAGGTC
E E P S N P E A S S S T S V T P>
__HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC__>

                                     >BsiQI
                                     |
      2060      2070      2080      2090      2100
ATGTTAGTGACAATGAACCTGATCATTATAGATATTCTGACACCACTGAC
TACAATCACTGTTACTTGGACTAGTAATATCTATAAGACTGTGGTGACTG
D V S D N E P D H Y R Y S D T T D>
__HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC__>

                                     >BscCI
                                     |
      2110      2120      2130      2140      2150
TCTGATCCAGAGAATGAACCTTTTGATGAAGATCAGCATTACAAATTAC

```

Fig. 20B (continued)

CTTCTGCCATCTCTCTCCTCCTTTTCTTCAGCCACAGGCTCCCAGACAT  
GAAGACGGTAGAGAGAGGAGGAAAAAGAAGTCGGTGTCCGAGGGTCTGTA

M>

—>

>EcoRV

960 970 980 990 1000  
GACAGCCATCATCAAAGAGATCGTTAGCAGAAACAAAAGGAGATATCAAG  
CTGTCGGTAGTAGTTTCTCTAGCAATCGTCTTTGTTTTCCTCTATAGTTC  
T A I I K E I V S R N K R R Y Q>

\_\_\_HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC\_\_\_>

>TaqI

1010 1020 1030 1040 1050  
AGGATGGATTTCGACTTAGACTTGACCTATATTTATCCAAATATTATTGCT  
TCCTACCTAAGCTGAATCTGAACTGGATATAAATAGGTTTATAATAACGA  
E D G F D L D L T Y I Y P N I I A>

\_\_\_HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC\_\_\_>

>PstI

1060 1070 1080 1090 1100  
ATGGGATTTCTGCAGAAAGACTTGAAGGTGTATACAGGAACAATATTGA  
TACCCTAAAGGACGTCTTCTGAACTTCCACATATGTCCTTGTATAACT  
M G F P A E R L E G V Y R N N I D>

\_\_\_HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC\_\_\_>

1110 1120 1130 1140 1150  
TGATGTAGTAAGGTTTGGATTCAAAGCATAAAAACCATTAAGATAT  
ACTACATCATTCCAAAAACCTAAGTTTCGTATTTTGGTAATGTTCTATA  
D V V R F L D S K H K N H Y K I>

\_\_\_HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC\_\_\_>

>PstI

1160 1170 1180 1190 1200  
ACAATCTATGTGCTGAGAGACATTATGACACCGCCAAATTTAACTGCAGA  
TGTTAGATACACGACTCTCTGTAATACTGTGGCGGTTTAAATTGACGTCT  
Y N L C A E R H Y D T A K F N C R>

\_\_\_HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC\_\_\_>

1210 1220 1230 1240 1250  
GTTGCACAGTATCCTTTTGAAGACCATAACCCACCACAGCTAGAACTTAT  
CAACGTGTCATAGGAAAACCTCTGGTATTGGGTGGTGTGATCTTGAATA  
V A Q Y P F E D H N P P Q L E L I>

\_\_\_HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC\_\_\_>

>BglII

1260 1270 1280 1290 1300  
CAAACCCTTCTGTGAAGATCTTGACCAATGGCTAAGTGAAGATGACAATC  
GTTTGGGAAGACACTTCTAGAACTGGTTACCGATTCACTTCTACTGTTAG  
K P F C E D L D Q W L S E D D N>

\_\_\_HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC\_\_\_>

Fig. 20B



1310 1320 1330 1340 1350  
 ATGTTGCAGCAATTCACCTGTAAAGCTGGAAAGGGACGGACTGGTGTAATG  
 TACAACGTCGTTAAGTGACATTTTCGACCTTTCCCTGCCTGACCACATTAC  
 H V A A I H C K A G K G R T G V M>  
 \_\_\_\_HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC\_\_\_\_>

1360 1370 1380 1390 1400  
 ATTTGTGCATATTTATTGCATCGGGGCAAATTTTAAAGGCACAAGAGGC  
 TAAACACGTATAAATAACGTAGCCCCGTTTAAAAAATTTCCGTGTTCTCCG  
 I C A Y L L H R G K F L K A Q E A>  
 \_\_\_\_HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC\_\_\_\_>

1410 1420 1430 1440 1450  
 CCTAGATTTTTATGGGGAAGTAAGGACCAGAGACAAAAAGGGAGTCACAA  
 GGATCTAAAAATACCCCTTCATTCTCTGGTCTCTGTTTTCCCTCAGTGTT  
 L D F Y G E V R T R D K K G V T>  
 \_\_\_\_HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC\_\_\_\_>

1460 1470 1480 1490 1500  
 TTCCCAGTCAGAGGCGCTATGTATATTATTATAGCTACCTGCTAAAAAAT  
 AAGGGTCAGTCTCCGCGATACATATAATAATATCGATGGACGATTTTTTA  
 I P S Q R R Y V Y Y Y S Y L L K N>  
 \_\_\_\_HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC\_\_\_\_>

1510 1520 1530 1540 1550  
 CACCTGGATTACAGACCCGTTGGCACTGCTGTTTCACAAGATGATGTTTGA  
 GTGGACCTAATGTCTGGGCACCGTGACGACAAAGTGTCTACTACAAACT  
 H L D Y R P V A L L F H K M M F E>  
 \_\_\_\_HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC\_\_\_\_>

1560 1570 1580 1590 1600  
 AACTATTCCAATGTTTCAGTGGCGGAACCTTGCAATCCTCAGTTTGTGGTCT  
 TTGATAAGGTTACAAGTCACCGCCTTGAACGTTAGGAGTCAAACACCAGA  
 T I P M F S G G T C N P Q F V V>  
 \_\_\_\_HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC\_\_\_\_>

1610 1620 1630 1640 1650  
 GCCAGCTAAAGGTGAAGATATATTCCTCCAATTCAGGACCCACGCGCGG  
 CGGTTCGATTTCCACTTCTATATAAGGAGGTTAAGTCCTGGGTGCGCCGCC  
 C Q L K V K I Y S S N S G P T R R>  
 \_\_\_\_HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC\_\_\_\_>

>RsaI

1660 1670 1680 1690 1700  
 GAGGACAAGTTCATGTACTTTGAGTTCCCTCAGCCATTGCCTGTGTGTGG  
 CTCCTGTTCAAGTACATGAACTCAAGGGAGTCGGTAACGGACACACACC  
 E D K F M Y F E F P Q P L P V C G>  
 \_\_\_\_HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC\_\_\_\_>

>EcoRV

1710 1720 1730 1740 1750  
 TGATATCAAAGTAGAGTTCTTCCACAAACAGAACAAAGATGCTCAAAAAGG  
 ACTATAGTTTCATCTCAAGAAGGTGTTTGTCTTGTCTACGAGTTTTTCC  
 D I K V E F F H K Q N K M L K K>  
 \_\_\_\_HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC\_\_\_\_>

**Fig. 20B (continued)**

AGACTAGGTCTCTTACTTGGAAAAC TACTTCTAGTCGTAAGTGTTTAATG  
S D P E N E P F D E D Q H S Q I T>  
\_\_\_\_HOMOLOG OF HUMAN MUTATED IN MULTIPLE ADVANC\_\_\_\_>

2160  
AAAAGTCTGA  
TTTTCAGACT  
K V \*>

Fig. 20B (continued)